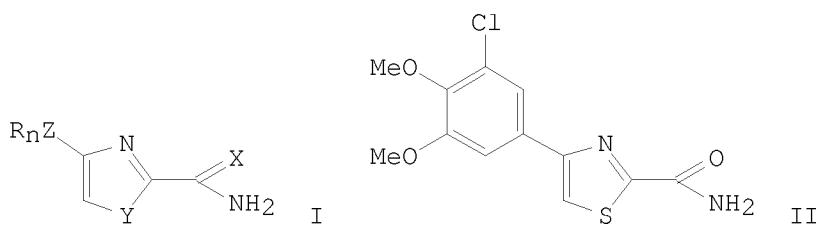


L14 ANSWER 86 OF 90 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1993:59710 CAPLUS <<LOGINID::20080828>>  
DOCUMENT NUMBER: 118:59710  
ORIGINAL REFERENCE NO.: 118:10718h,10719a  
TITLE: Preparation of 4-aryl-2-carbamoylthiazoles and  
-imidazoles for treatment of heart failure and asthma  
INVENTOR(S): Pick, John Henry; Logan, Robert Thomas  
PATENT ASSIGNEE(S): AKZO N. V., Neth.  
SOURCE: Eur. Pat. Appl., 10 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 506194	A1	19920930	EP 1992-200825	19920323
EP 506194	B1	19960821		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
ZA 9201781	A	19921125	ZA 1992-1781	19920310
AU 9212915	A	19921001	AU 1992-12915	19920313
AU 648394	B2	19940421		
CA 2063172	A1	19920926	CA 1992-2063172	19920317
AT 141597	T	19960915	AT 1992-200825	19920323
ES 2093765	T3	19970101	ES 1992-200825	19920323
NO 9201156	A	19920928	NO 1992-1156	19920324
NO 301929	B1	19971229		
JP 05097816	A	19930420	JP 1992-67491	19920325
US 5254575	A	19931019	US 1992-857526	19920325
US 5462959	A	19951031	US 1993-136530	19931014
PRIORITY APPLN. INFO.:				
			EP 1991-302573	A 19910325
			US 1992-857526	A3 19920325

OTHER SOURCE(S): MARPAT 118:59710  
GI



AB Title compds. [I; X = O, NOH; Y = S, NR<sub>3</sub>; Z = phenylene, naphthylene, tetrahydronaphthylene, biphenylene; R = H, alkyl, alkoxy, thioalkyl, cycloalkyl, halo, CF<sub>3</sub>, NO<sub>2</sub>, aminoalkoxy; n = 1-4; R<sub>3</sub> = H, alkyl], were

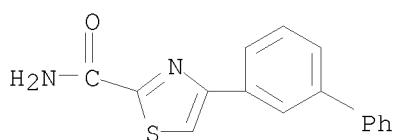
prepared as phosphodiesterase inhibitors, bronchodilators, and for increasing the sensitivity of cardiac myofibrils to Ca (no data). Thus, 1-(3-chloro-4,5-dimethoxyphenyl)ethanone was treated with Br in CHCl<sub>3</sub> to give the 2-bromo derivative, which was refluxed with Et aminothioxoacetate in EtOH to give Et 4-(3-chloro-4,5-dimethoxyphenyl)thiazole-2-carboxylate. This was heated with NH<sub>3</sub> in HOCH<sub>2</sub>CH<sub>2</sub>OH at 120° to give title compound II.

IT 145261-26-3P 145261-59-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, for treatment of heart failure and asthma)

RN 145261-26-3 CAPLUS

CN 2-Thiazolecarboxamide, 4-[1,1'-biphenyl]-3-yl- (CA INDEX NAME)



RN 145261-59-2 CAPLUS

CN 2-Thiazolecarboximidamide, 4-[1,1'-biphenyl]-3-yl-N-hydroxy- (CA INDEX NAME)

